



# SEQUENCE LISTING

<110> Wary, Kishore, K.  
Huntsoe, Joseph O.

<120> Uses of Vascular Endothelial Growth Factor  
and Type I Collagen Inducible Protein (VCIP)

<130> D6563

<140> US 10/912,238  
<141> 2004-03-29

<150> US 60/458,164  
<151> 2003-03-27

<160> 36

<210> 1  
<211> 15  
<212> PRT  
<213> Unknown

<220>  
<221> CHAIN  
<223> peptide used to raise anti-VCIP-cyto-C16  
antibody

<400> 1  
Leu Ser Pro Val Asp Ile Ile Asp Arg Asn Asn His His Asn Met  
5 10 15

<210> 2  
<211> 20  
<212> PRT  
<213> Unknown

<220>

<221> CHAIN  
<223> peptide used to raise anti-VCIP-RGD antibody

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Glu Gly Tyr Ile Gln Asn Tyr Arg Cys Arg Gly Asp Asp Ser Lys  
5 10 15  
Val Gln Glu Ala Arg  
20

<210> 3  
<211> 33  
<212> DNA  
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<220>  
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<223> forward primer for VCIP

<400> 3  
ggaggatccc tcgcgccgca gccagcgcca tgc 33

<210> 4  
<211> 25  
<212> DNA  
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<400> 4  
gtggcaccta catcatgttg tgggtg 25

<210> 5  
<211> 22  
<212> DNA  
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<400> 5  
cttcctgaaa tgcgtcaaca cc 22

<210> 6  
<211> 22  
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<400> 6  
tcatagctgg gaaaactgag gc 22

<210> 7  
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<400> 7  
ggctgtgcta tccctgtacg cc 22

<210> 8  
<211> 22  
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<223> reverse primer for  $\beta$ -actin

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gggcagtgat ctccttctgc at 22

<210> 9

<211> 23

<212> DNA

<213> Artificial Sequence

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<221> primer\_bind

<223> forward primer for GAPDH

<400> 9

ggtctcctct gacttcaaca gcg 23

<210> 10

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<221> primer\_bind

<223> reverse primer for GAPDH

<400> 10

ggtactttat tgatggtaca tgac 24

<210> 11

<211> 6

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<213> Unknown

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 <223> a peptide containing RGD sequence  
  
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 Gly Arg Gly Asp Ser Pro  
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<210> 12  
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 <212> PRT  
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 <400> 12  
 Tyr Pro Tyr Asp Val Pro Asp Tyr Ala  
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<210> 13  
 <211> 311  
 <212> PRT  
 <213> Unknown

<220>  
 <221> CHAIN  
 <223> human VCIP

<400> 13  
 Met Gln Asn Tyr Lys Tyr Asp Lys Ala Ile Val Pro Glu Ser Lys  
 5 10 15  
 Asn Gly Gly Ser Pro Ala Leu Asn Asn Asn Pro Arg Arg Ser Gly  
 20 25 30  
 Ser Lys Arg Val Leu Leu Ile Cys Leu Asp Leu Phe Cys Leu Phe  
 35 40 45  
 Met Ala Gly Leu Pro Phe Leu Ile Ile Glu Thr Ser Thr Ile Lys  
 50 55 60

Pro	Tyr	His	Arg	Gly	Phe	Tyr	Cys	Asn	Asp	Glu	Ser	Ile	Lys	Tyr			
				65					70					75			
Pro	Leu	Lys	Thr	Gly	Glu	Thr	Ile	Asn	Asp	Ala	Val	Leu	Cys	Ala			
				80					85					90			
Val	Gly	Ile	Val	Ile	Ala	Ile	Leu	Ala	Ile	Ile	Thr	Gly	Glu	Phe			
				95					100					105			
Tyr	Arg	Ile	Tyr	Tyr	Leu	Lys	Lys	Ser	Arg	Ser	Thr	Ile	Gln	Asn			
				110					115					120			
Pro	Tyr	Val	Ala	Ala	Leu	Tyr	Lys	Gln	Val	Gly	Cys	Phe	Leu	Phe			
				125					130					135			
Gly	Cys	Ala	Ile	Ser	Gln	Ser	Phe	Thr	Asp	Ile	Ala	Lys	Val	Ser			
				140					145					150			
Ile	Gly	Arg	Leu	Arg	Pro	His	Phe	Leu	Ser	Val	Cys	Asn	Pro	Asp			
				155					160					165			
Phe	Ser	Gln	Ile	Asn	Cys	Ser	Glu	Gly	Tyr	Ile	Gln	Asn	Tyr	Arg			
				170					175					180			
Cys	Arg	Gly	Asp	Asp	Ser	Lys	Val	Gln	Glu	Ala	Arg	Lys	Ser	Phe			
				185					190					195			
Phe	Ser	Gly	His	Ala	Ser	Phe	Ser	Met	Tyr	Thr	Met	Leu	Tyr	Leu			
				200					205					210			
Val	Leu	Tyr	Leu	Gln	Ala	Arg	Phe	Thr	Trp	Arg	Gly	Ala	Arg	Leu			
				215					220					225			
Leu	Arg	Pro	Leu	Leu	Gln	Phe	Thr	Leu	Ile	Met	Met	Ala	Phe	Tyr			
				230					235					240			
Thr	Gly	Leu	Ser	Arg	Val	Ser	Asp	His	Lys	His	His	Pro	Ser	Asp			
				245					250					255			
Val	Leu	Ala	Gly	Phe	Ala	Gln	Gly	Ala	Leu	Val	Ala	Cys	Cys	Ile			
				260					265					270			
Val	Phe	Phe	Val	Ser	Asp	Leu	Phe	Lys	Thr	Lys	Thr	Thr	Leu	Ser			
				275					280					285			
Leu	Pro	Ala	Pro	Ala	Ile	Arg	Lys	Glu	Ile	Leu	Ser	Pro	Val	Asp			
				290					295					300			
Ile	Ile	Asp	Arg	Asn	Asn	His	His	Asn	Met	Met							
				305					310								

<210> 14  
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<213>       Unknown  
  
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 <223>       lipid phosphatase domain of human VCIP  
  
 <400>       14  
 Asp Ile Ala Lys Val Ser Ile Gly Arg Leu Arg Pro His Phe Leu  
                   5                                  10                                  15  
 Ser Val Cys

<210>       15  
 <211>       18  
 <212>       PRT  
 <213>       Unknown

<220>  
 <221>       CHAIN  
 <223>       a rat peptide containing lipid  
              phosphatase domain  
  
 <400>       15  
 Asp Ile Ala Lys Tyr Ser Ile Gly Arg Leu Arg Pro His Phe Leu  
                   5                                  10                                  15  
 Ala Val Cys

<210>       16  
 <211>       18  
 <212>       PRT  
 <213>       Unknown

<220>  
 <221>       CHAIN  
 <223>       a mouse peptide containing lipid  
              phosphatase domain  
  
 <400>       16  
 Asp Ile Ala Lys Tyr Thr Ile Gly Ser Leu Arg Pro His Phe Leu

	5	10	15
Ala Ile Cys			

<210>	17
<211>	18
<212>	PRT
<213>	Unknown

<220>	
<221>	CHAIN
<223>	a human peptide containing lipid phosphatase domain

<400>	17
Asp Leu Ala Lys Tyr Met Ile Gly Arg Leu Arg Pro Asn Phe Leu	
	5 10 15

Ala Val Cys

<210>	18
<211>	18
<212>	PRT
<213>	Unknown

<220>	
<221>	CHAIN
<223>	a Drosophila peptide containing lipid phosphatase domain

<400>	18
Asn Ile Ala Lys Tyr Ser Ile Gly Arg Leu Arg Pro His Phe Tyr	
	5 10 15

Thr Leu Cys

<210>	19
<211>	18
<212>	PRT
<213>	C. elegans



<220>

<221> CHAIN

<223> a C. elegans peptide containing lipid  
phosphatase domain

<400> 19

Ile Val Thr Lys His Val Val Gly Arg Leu Arg Pro His Phe Leu  
5 10 15  
Asp Val Cys

<210> 20

<211> 10

<212> PRT

<213> Unknown

<220>

<221> CHAIN

<223> a peptide containing RGD sequence

<400> 20

Asn Tyr Arg Cys Arg Gly Asp Asp Ser Lys  
5 10

<210> 21

<211> 10

<212> PRT

<213> Unknown

<220>

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<223> a peptide containing a mutated RGD sequence

<400> 21

Asn Tyr Arg Cys Arg Ala Asp Asp Ser Lys  
5 10

<210> 22  
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 Asn Tyr Arg Cys Arg Gly Asp Asp Ser Lys Val Gln Glu  
                   5                                  10

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 <221> primer\_bind  
 <223> forward primer for phosphatase inactive  
           or dead form of PAP2b  
  
 <400> 24  
 gccggatcca tgcaaaacta caagtacgac 30

<210>	25	
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<400>	25	
gaggagccag gcgccctatg gacactgcgg caat		34
<210>	26	
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tgccgcagtg tccatagggc gcctggctcc tca		33
<210>	27	
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<400>	27	

gcgatcgatc tacatcatgt tgtg 24

<210> 28  
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<223> forward primer for N-terminal PAP2b truncation

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<210> 31  
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cgcgatcgat ctacgtcgtc ttagt 25

<210> 32  
<211> 6  
<212> PRT  
<213> Unknown

<220>  
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Cys Arg Gly Asp Asp Ser  
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<210> 33  
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gttgcccaag ttggagtgc atgg 24

<210> 34

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<213> Artificial Sequence

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<223> anti-sense primer for human Alu sequence

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acaatggctc acgcctgtaa tccc 24

<210> 35

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<221> primer\_bind

<223> sense primer for mouse GAPDH

<400> 35

tggagtctac tgggtgtcttc accaccatg 29

<210> 36

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<221> primer\_bind

<223> anti-sense primer for mouse GAPDH

<400> 36

gcaggagaca acctggtcct cagtg 25